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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,172	03/31/2004	Oswald Kuwert	BOE01 052 4481	
75	590 11/02/2005		EXAMINER	
DUANE MORRIS LLP		JONES, JUDSON		
Suite 700 1667 K. Street,	N.W.		ART UNIT	PAPER NUMBER
Washington, DC 20006		2834		
			DATE MAILED: 11/02/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
Office Assistant Commence	10/813,172	KUWERT ET AL.		
Office Action Summary	Examiner	Art Unit		
	Judson H. Jones	2834		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period value of the provision of the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply within the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1. cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 2a) ☐ This action is FINAL.				
Disposition of Claims				
4) ⊠ Claim(s) <u>1-10</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-7</u> is/are rejected. 7) ⊠ Claim(s) <u>8-10</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers	·			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Application rity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6-39-04	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohta et al. 6,157,103 in view of Schiavon 4,740,737. Ohta et al. discloses an electric motor with a threaded shank 53 coupled to the rotor via thread 65 with the rotor hub 46 supported by roller bearings 50 wherein the stator core and windings are embedded as described in column 5 lines 64 to column 6 line 7 and as shown in figure 9 wherein rotor hub 46 acts as a linear guide to accommodate the threaded shank. Ohta doesn't say if the power supplied to the electric motor is DC or multiphase. Schiavon teaches in column 1 line 62 to column 2 line 2 that a multiphase motor can be used for controlling the throttle valve of a carburetor. Since Schiavon and Ohta et al. are from the same field of endeavor and since Ohta et al. does not disclose what kind of power is used for his electric motor, it would have been obvious at the time the invention was made for one of ordinary skill in the art to have utilized a multiphase power supply for the motor of Ohta et al. in order to better control the stepping motor.

In regard to claim 2, see Ohta et al. figure 1. The portion of housing 3 next to the shaft acts as a stop.

In regard to claim 3, see Ohta et al. figure 3 and the electrical connectors in the top left of the drawing.

In regard to claim 4, see Ohta et al. figure 3 elements 53 and 65.

In regard to claims 5 and 7, see Ohta et al. column 5 lines 37-45.

In regard to claim 6, see the flange portion in Ohta et al. figure 1 held by bolt 21 and see bearings 50.

Allowable Subject Matter

Claims 8-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose or teach a rotor having two pole plates separated by a permanent magnet in combination with the other features of claim 8. The prior art of record does not disclose or teach a hybrid stepping motor in combination with the other features of claim 10.

On pages 1 and 2 of applicant's specification hybrid stepping motors and claw tooth motors are discussed. The Ohta et al. device is a claw tooth motor as shown in figure 2. Applicant's device is a hybrid stepping motor. The limitations in claim 8 are for features present in a hybrid stepping motor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H. Jones whose telephone number is 571-272-2025. The examiner can normally be reached on 8-4:30 M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Judson H. Jones 10/26/2005

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TEGINOLOGY CATER 2800